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07.15.03

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

**TI-34889**

First Named Inventor or Application Identifier

**Eko N. Onggosanusi**

Express Mail Label No.

**EV333318276US**

Title

**Iterative Detection in MIMO Systems**

On Page 1 of the specification, before line 1, insert –This application claims priority under 35 USC § 119(e)(1) of provisional application number 60/395,604 filed 7/12/2002. --

**APPLICATION ELEMENTS**

See MPEP Chapter 600 concerning utility patent application contents

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 202312191-11-6  
10/618970  
07/14/03

1. <input checked="" type="checkbox"/>	Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)	6. <input type="checkbox"/>	Microfiche Computer Program (Appendix)	
2. <input checked="" type="checkbox"/>	Specification (preferred arrangement set forth below)	[Total Pages] <b>24</b>	7. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)	
	- Descriptive title of the Invention		a. <input type="checkbox"/> Computer Readable Copy	
	- Cross References to Related Applications		b. <input type="checkbox"/> Paper Copy (identical to computer copy)	
	- Statement Regarding Fed sponsored R&D		c. <input type="checkbox"/> Statement verifying identical of above copies	
	- Reference to Microfiche Appendix			
	- Background of the Invention			
	- Brief Summary of the Invention			
	- Brief Description of the Drawings (if filed)			
	- Detailed Description			
	- Claim(s)			
	- Abstract of the Disclosure			
3. <input checked="" type="checkbox"/>	Drawing(s) (35 USC d113)	[Total Sheets] <b>9</b>	8. <input type="checkbox"/> Assignment Papers (cover sheet & Documents(s))	
4. <input type="checkbox"/>	Oath or Declaration	[Total Pages]	9. <input type="checkbox"/> 37 CFR §3.73(b) Statement (when there is an assignee)	Power of Attorney <input type="checkbox"/>
a. <input type="checkbox"/>	Newly Executed (original or copy)		10. <input type="checkbox"/> English Translation Document (if applicable)	
b. <input type="checkbox"/>	Copy from a prior application (37 CFR §1.63(d)) (for continuation/divisional with Box 17 completed)		11. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449	Copies of IDS Citations <input type="checkbox"/>
<b>[Note Box 5 below]</b>				
i. <input type="checkbox"/>	<b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §1.63(d)(2) and 1.33(b).	12. <input type="checkbox"/> Preliminary Amendment		
5. <input type="checkbox"/>	Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.	13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)		
<i>*A new statement is required to be entitled to pay small entity fees, except where one has been filed in a prior application and is being relied upon.</i>				
17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment:				
<input type="checkbox"/> Continuation		<input type="checkbox"/> Divisional		<input type="checkbox"/> Continuation-in-part (CIP)
Prior application information: Examiner _____		of prior application No: / . Group / Art Unit: _____		

**18. CORRESPONDENCE ADDRESS**

Customer Number or Bar Code Label

**23494**

(Insert Customer No. or Attach bar code label here)



Correspondence address below

NAME			
ADDRESS			
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Name (Print/Type)	Carlton H. Hoel	Registration No. (Attorney/Agent)	<b>29,934</b>
Signature			Date <b>7/14/03</b>

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

EXPRESS MAIL Mailing Label No. **EV333318276US**

Approved for use through 09/30/2000. OMB 0651-0032

DATE: **7/14/2003**

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL**

Patent fees are subject to annual revision on October 1.

These are the fees effective October 1, 1997

Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.

TOTAL AMOUNT OF PAYMENT

(\$)**750****Complete If Known**

Application Number

**7/14/2003**

Filing Date

First Named Inventor

**Eko N. Ongg sanusi**

Examiner Name

Group / Art Unit

Attorney Docket No.

**TI-34889****METHOD OF PAYMENT**1.  The Commissioner is hereby authorized to charge to the following Deposit Account,

Deposit Account Number

**20-0668**

Deposit Account Name

**Texas Instruments Incorporated** Charge any additional fee required or credit any overpayment  Charge all indicated fees and any additional fee required or credit any overpayment2.  Payment Enclosed: Check  Money Order  Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	<b>\$750</b>
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
<b>SUBTOTAL (1)</b>					<b>(\$)</b> <b>750</b>

**2. EXTRA CLAIM FEES**

Total Claims	-20**=	Extra Claims		Fee from below	Fee Paid	
		0	x	18	=	\$00
Independent Claims	-3** =	0	x	84	=	\$00
Multiple Dependent				280	=	\$00

\*\*or number previously paid, if greater; For Reissue, see below

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent Claims in excess of 3
104	280	204	140	Multiple dependent claims in excess of 3
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent
<b>SUBTOTAL (2)</b>				<b>(\$)</b> <b>\$00</b>

**3. ADDITIONAL FEES**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension of time within second month	
117	950	217	475	Extension of time within third month	
118	1,510	218	755	Extension of time within fourth month	
128	2,060	228	1,030	Extension of time within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,320	241	660	Petition to revive - unintentional	
142	1,320	242	660	Utility issue fee (or reissue)	
143	450	243	225	Design issue fee	
144	670	244	335	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	240	Submission of Information Disclosure Stmt.	
581	40	581	40	Recording each patent assignment per property (time number of properties)	
146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))	
149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))	

Other fee (specify) \_\_\_\_\_

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** \_\_\_\_\_

Complete (if applicable)

**SUBMITTED BY**

Typed or Printed Name

**Carlton H. Hoel**

Reg. Number

**29,934**

Signature

Date

**7/14/03**

Deposit Account User ID